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(54) CATALYST FOR PURIFYING EXHAUST GAS AND PURIFICATION OF EXHAUST GAS

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a catalyst for purifying exhaust gas which can improve an NO_x purification capacity even in a low temperature area and in a low HC/NO_x ratio and control deterioration even under high temperature hydrothermal conditions, and to provide a method for purifying exhaust gas.

SOLUTION: A catalyst containing zeolite is arranged in a preceding stage to an exhaust gas flow, and a catalyst which consists of a first catalyst layer containing at least one component selected from the group consist-

ing of platinum(Pt), palladium(Pd), and rhodium(Rh) and at least one component selected from the group consisting of alkali metals, alkaline earth metals, and rare earth metals, a second catalyst layer containing alumina and/or silica, and a third catalyst layer containing a copper (Cu) component and/or a cobalt (Co) component and in which the first, second, and third catalyst layers are overlaid in turn, is arranged in a succeeding stage to the exhaust gas flow. Appropriately, a catalyst for purifying exhaust gas is used for an internal combustion engine in which the air/fuel ratio of exhaust gas is at the lowest 14.7, an oxygen concentration is at the lowest 5%, and an HC/NO_x ratio is at the highest 10.

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